Title (en)
SYSTEMS AND METHODS FOR PREDICTING INFORMATION RELATING TO A CORONARY LESION OF A PATIENT

Title (de)
SYSTEME UND VERFAHREN ZUR VORHERSAGE VON INFORMATIONEN IM ZUSAMMENHANG MIT EINER KORONARLÄSION EINES PATIENTEN

Title (fr)
SYSTÈMES ET PROCÉDÉS DE PRÉDICTION D'INFORMATIONS RELATIVES À UNE LÉSION CORONAIRE D'UN PATIENT

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Abstract (en)
Systems and methods are disclosed for predicting information relating to a coronary lesion of a patient. One method comprises: receiving imaging data and one or more of physiologic or hemodynamic information for a patient; for each point of a plurality of points in the imaging data, generating a respective feature vector based on the obtained one or more of the physiologic or hemodynamic information; operating a trained machine-learning model on the respective feature vectors; and generating and displaying, using a computer processor, a patient-specific prediction regarding a progression of coronary artery disease for the patient, using the respective estimates of the probability of one or more of plaque growth, shrinkage, or onset at the plurality of points in the imaging data of the patient.

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Citation (applicant)
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